# Mobil DTE™ 20 Ultra Series

Mobil Industrial , Croatia

Hydraulic Oils




## Product Description

Mobil DTE™ 20 Ultra Series oils are high performance anti-wear hydraulic oils with extended oil life capabilities and have demonstrated up to 2 times longer oil drain intervals versus similar competitive oils (*).

They meet the stringent requirements of hydraulic systems using high pressure, high output pumps as well as other hydraulic system components such as close clearance servo-valves and numerically controlled (NC) machine tools. The products exhibit outstanding oxidation and thermal stability allowing long oil life and minimized deposit formation in harsh conditions and with severe hydraulic systems using high pressure, high output pumps. The keep clean performance protects critical hydraulic system components from malfunction, such as tight tolerance servo and proportional valves found in many modern hydraulic systems.

These products met the most rigorous performance requirements of a wide range of hydraulic system and component manufacturers, allowing use of a single product with excellent performance characteristics.

(*) with a viscosity index around 100 and a zinc-based anti-wear system - meeting at least ISO 11158 (L-HM) and/or DIN 51524-2 (HLP type) requirements.

### Features and Benefits

| Features | Advantages and Potential Benefits |
|---|---|
| Outstanding Keep Clean Performance | Reduced system deposits and sludge to help protect equipment and extend equipment life, reduce maintenance costs and improve total system performance |
| Enhanced Anti-wear Performance | Meets or exceeds major pump manufacturer requirements, helps extend component life |
| Exceptional Thermal and Oxidation Stability | Helps reduce maintenance downtime and costs by contributing to system cleanliness and deposit reduction even under harsh operating conditions and high power density. |
| Enhanced Corrosion Protection | Helps ensure protection with a wide variety of component metallurgy |
| Controlled Demulsibility | Protects systems from small and large quantities of water and helps extend filter life |
| Quality Reserve | Maintains performance features even under severe service conditions and extended drain intervals |

### Applications

- Hydraulic systems critical to deposit build-up or where sludge and deposits form with conventional products
- Hydraulic systems requiring a high load-carrying capability and anti-wear protection, and when thin oil-film corrosion protection is an asset
- Where small amounts of water are unavoidable

- Systems containing gears and bearings
- Machines employing a wide range of components using various metallurgy

## Specifications and Approvals

| This product has the following approvals: | MOBIL DTE 21 ULTRA | MOBIL DTE 22 ULTRA | MOBIL DTE 24 ULTRA | MOBIL DTE 25 ULTRA | MOBIL DTE 26 ULTRA | MOBIL DTE 27 ULTRA |
|---|---|---|---|---|---|---|
| Arburg Hydraulic Fluid | | | | X | | |
| Bosch Rexroth Fluid Rating List 90245 | | | X | X | X | |
| Denison HF-0 | | | X | X | X | |
| Denison HF-1 | | | X | X | X | |
| Denison HF-2 | | | X | X | X | |
| Eaton E-FDGN-TB002-E | | | X | X | X | |
| FRAMO Hydraulic System | | | | X | | |
| HOCNF Norway-NEMS, Black | X | | X | X | X | X |

| This product is recommended for use in applications requiring: | | | | | | |
|---|---|---|---|---|---|---|
| Fives Cincinnati P-68 | | | X | | | |
| Fives Cincinnati P-69 | | | | | X | |
| Fives Cincinnati P-70 | | | | X | | |

| This product meets or exceeds the requirements of: | | | | | | |
|---|---|---|---|---|---|---|
| ASTM D6158 (Class HMHP) | | X | X | X | X | X |
| China GB 11118.1-2011, L-HM(General) | | X | X | X | X | X |
| China GB 11118.1-2011, L-HM(HP) | | | X | X | X | X |
| DIN 51524-2:2017-06 | X | X | X | X | X | X |
| ISO L-HM (ISO 11158:2009) | X | X | X | X | X | X |

## Properties and Specifications

| Property | MOBIL DTE 21 ULTRA | MOBIL DTE 22 ULTRA | MOBIL DTE 24 ULTRA | MOBIL DTE 25 ULTRA | MOBIL DTE 26 ULTRA | MOBIL DTE 27 ULTRA |
|---|---|---|---|---|---|---|
| Grade | ISO 10 | ISO 22 | ISO 32 | ISO 46 | ISO 68 | ISO 100 |

| Property | MOBIL DTE 21 ULTRA | MOBIL DTE 22 ULTRA | MOBIL DTE 24 ULTRA | MOBIL DTE 25 ULTRA | MOBIL DTE 26 ULTRA | MOBIL DTE 27 ULTRA |
|---|---|---|---|---|---|---|
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 1A | 1A | 1A | 1A | 1A | 1A |
| Density @ 15.6 C, kg/l, ASTM D4052 | 0.8373 | 0.8524 | 0.8596 | 0.8667 | 0.8743 | 0.8797 |
| FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1 | - | - | 11 | 11 | 11 | 12 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 174 | 234 | 231 | 238 | 252 | 278 |
| Foam, Sequence I, Stability, ml, ASTM D892 | 0 | 0 | 0 | 0 | 0 | 0 |
| Foam, Sequence I, Tendency, ml, ASTM D892 | 20 | 20 | 10 | 10 | 10 | 50 |
| Foam, Sequence II, Stability, ml, ASTM D892 | 0 | 0 | 0 | 0 | 0 | 0 |
| Foam, Sequence II, Tendency, ml, ASTM D892 | 10 | 10 | 10 | 10 | 20 | 30 |
| Foam, Sequence III, Stability, ml, ASTM D892 | 0 | 0 | 0 | 0 | 0 | 0 |
| Foam, Sequence III, Tendency, ml, ASTM D892 | 20 | 10 | 10 | 10 | 0 | 20 |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445 | 2.8 | 4.4 | 5.8 | 7.1 | 8.9 | 11.9 |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445 | 10.7 | 21.4 | 33.4 | 46.2 | 68.6 | 100.2 |
| Pour Point, °C, ASTM D97 | -45 | -39 | -36 | -33 | -30 | -33 |
| Rust Characteristics, Procedure B, ASTM D665 | PASS | PASS | PASS | PASS | PASS | PASS |
| Viscosity Index, ASTM D2270 | 106 | 115 | 115 | 110 | 104 | 108 |

**Health and Safety**

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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